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Supplemental Material

Perinatal Exposure to Traffic-Related Air Pollution and Autism Spectrum Disorders

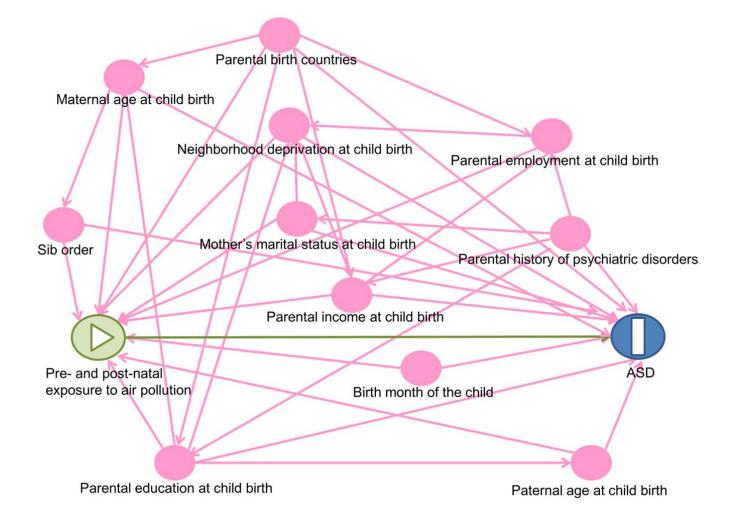
Tong Gong, Christina Dalman, Susanne Wicks, Henrik Dal, Cecilia Magnusson, Cecilia Lundholm, Catarina Almqvist, and Göran Pershagen

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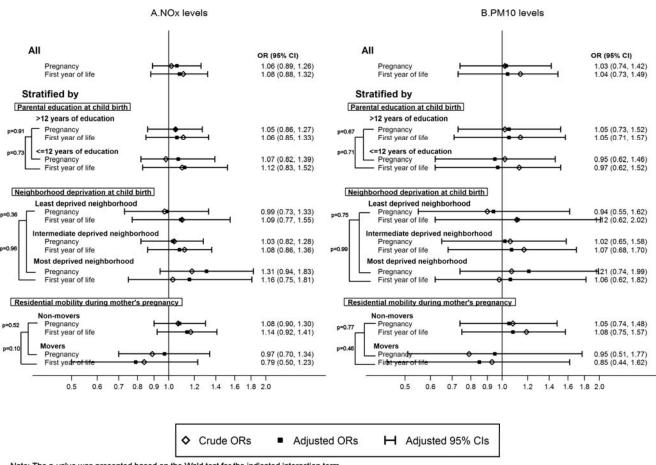
Figure S1.Directed acyclic graph to determine potential confounders of the investigated associations



Note: We conditioned on calendar year and municipality of birth for all analyses. Therefore, they was not shown in the directed acyclic graph.

Minimal sufficient adjustment sets for estimating the total effect of pre- and post-natal exposure to air pollution on ASD: birth month of the child, maternal age at child birth, mother's marital status at child birth, neighborhood deprivation at child birth, parental birth countries, parental education at child birth, parental employment at child birth, parental income at child birth, paternal age at child birth, and sib order.

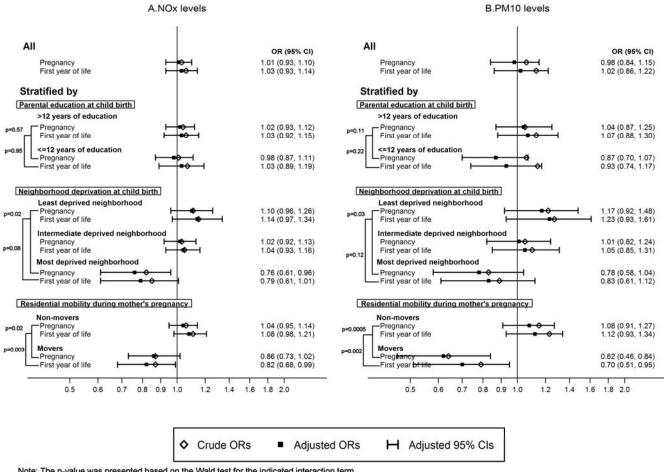
Figure S2. Odds ratios and 95% confidence intervals for ASD with ID by residential address-based NO_x (per 10 μg/m³ increase) and PM₁₀ (per 20 μg/m³ increase) levels during mother's pregnancy and child's first year of life.



Note: The p-value was presented based on the Wald test for the indicated interaction term.

Models conditioned on calendar year and municipality of birth as well as adjusted for gender, birth month, sib order, maternal age, paternal age, mother's marital status, parents' birth countries, mother's education, father's education, mother's employment, father's employment, disposable income within household, and neighborhood deprivation.

Figure S3. Odds ratios and 95% confidence intervals for ASD without ID by residential address-based NO_x (per 10 µg/m³ increase) and PM₁₀ (per 20 μg/m³ increase) levels during mother's pregnancy and child's first year of life.



Models conditioned on calendar year and municipality of birth as well as adjusted for gender, birth month, sib order, maternal age, paternal age, mother's marital status, parents' birth countries, mother's education, father's education, mother's employment, father's employment, disposable income within household, and neighborhood deprivation.

Table S1. All relevant diagnostic codes used in this project from the International Classification of Diseases (ICD) and the Diagnostic and Statistical Manual of Mental Disorders (DSM).

Disorders	DSM-IV	ICD-10 (1997-)	ICD-9 (1987-1996)	ICD-8 (1969-1986)	ICD-7 (1957-1968)
Any psychiatric disorders	-	F	290-315	290-319	300-326
Autism spectrum disorders (ASD)	299	F84	299	N/A	N/A
Bipolar disorders	-	F30-F31	296A, C-E	29610-29630	N/A
Congenital malformations	-	Q	740-759	N/A	N/A
Intellectual disability	317-319	F70-F79	317-319	N/A	N/A
Non-affective psychosis	-	F20-29	295, 297, 298 (excl 298A and 298B)	295, 297, 298 (excl 29800 and 29810), 29999	N/A
Schizophrenia	-	F20	295 without a letter, 295A-E, G, W, X	295 excluding 29550 and 29570	N/A
Pre-eclampsia		O14-15	642E-G	N/A	N/A
Pre-gestational and gestational diabetes		E10-14, O240-243, O244	250, 648A, 648W	N/A	N/A
Premature rupture of the membranes		O42	658B	N/A	N/A
Placental abruption		O45	641C	N/A	N/A

Note: N/A= Children born/mothers delivering during1993-2007 were not in this ICD-system.

Table S2. The municipality division of Stockholm County

Stockholm County (including 26 municipalities)			
Stockholm municipality	The other 25 municipalities		
Kista+Spånga+Rinkeby+Tensta	Botkyrka		
Bromma	Danderyd		
Häseelby+Vällingby	Ekerö		
Kungsholmen+Norrmalm+Östermalm	Haninge		
Södermalm	Huddinge		
Skarpnäck	Järfälla		
Farsta	Lidingö		
Liljeholmen+Hägersten+Älvsjö+Enskede+Årsta+Vantör	Nacka		
Skärholmen	Norrtälje		
	Nykvarn		
	Nynäshamn		
	Salem		
	Sigtuna		
	Sollentuna		
	Solna		
	Sundbyberg		
	Södertälje		
	Tyresö		
	Täby		
	Upplands-Bro		
	Upplands Väsby Vallentuna		
	Vaxholm		
	Värmdö		
	Österåker		

Table S3. Descriptive statistics and correlation between pollutants

			Pollutants'	descriptive s	tatistics			Pearson of	correlations	
Time	Dellutent	Maan	CD	Modian	IOD	Missing	Entire p	regnancy	First year	after birth
	Pollutant	Mean	SD	Median	IQR	n (%)	NO_x	PM_{10}	NO_x	PM ₁₀
Entire	NO_x	11.04	11.39	7.79	9.91	69	1.00			
pregnancy	PM ₁₀	4.38	3.22	3.65	3.99	(0.3)	0.83	1.00		
First year	NO _x	9.83	10.33	6.93	8.68	27	0.89	0.74	1.00	
after birth	PM ₁₀	4.21	3.14	3.48	3.05	(0.1)	0.74	0.89	0.83	1.00

Table S4. Risk of ASD (overall, with and without ID) based on continuous pollutants' levels during different time windows

Time windows and pollutants	Models A [†] OR (95% CI)	Models B [‡] OR (95% CI)	Models C ^{II} OR (95% CI)
ASD overall (nr of cases/controls=5,136/		, ,	
Entire pregnancy			
NO _x (per 20µg/m³ increase)	1.02 (0.95, 1.11)	1.02 (0.94, 1.10)	1.02 (0.94, 1.10)
PM ₁₀ (per 10µg/m³ increase)	1.05 (0.91, 1.21)	1.01 (0.87, 1.17)	1.00 (0.86, 1.15)
First year of life			
NO _x (per 20µg/m³ increase)	1.07 (0.97, 1.17)	1.05 (0.95, 1.15)	1.04 (0.95, 1.14)
PM ₁₀ (per 10µg/m³ increase)	1.13 (0.96, 1.33)	1.06 (0.90, 1.25)	1.03 (0.87, 1.21)
ASD with ID (nr of cases/controls=913/1 Entire pregnancy	18)		
NO _x (per 20µg/m ³ increase)	1.02 (0.86, 1.22)	1.06 (0.89, 1.26)	1.06 (0.89, 1.26)
PM ₁₀ (per 10µg/m³ increase)	1.02 (0.75, 1.39)	1.05 (0.76, 1.45)	1.03 (0.74, 1.42)
First year of life	,	,	,
NO _x (per 20µg/m³ increase)	1.11 (0.91, 1.35)	1.09 (0.89, 1.34)	1.08 (0.88, 1.32)
PM ₁₀ (per 10μg/m³ increase)	1.14 (0.81, 1.60)	1.08 (0.76, 1.54)	1.04 (0.73, 1.49)
ASD without ID (nr of cases/controls=4,2 Entire pregnancy	223/18,119)		
NO _x (per 20μg/m ³ increase)	1.03 (0.95, 1.12)	1.01 (0.93, 1.10)	1.01 (0.93, 1.10)
PM ₁₀ (per 10µg/m³ increase)	1.06 (0.90, 1.23)	1.00 (0.85, 1.17)	0.98 (0.84, 1.15)
First year of life	, , ,	, , ,	, , ,
NO _x (per 20µg/m³ increase)	1.06 (0.96, 1.17)	1.04 (0.94, 1.15)	1.03 (0.93, 1.14)
PM ₁₀ (per 10μg/m³ increase)	1.13 (0.95, 1.34)	1.05 (0.88, 1.26)	1.02 (0.86, 1.22)

[†] Models conditioned on calendar year and municipality of birth, as well as adjusted for gender and birth month.

[‡] Models conditioned on calendar year and municipality of birth, as well as adjusted for gender, birth month, sib order, parents' birth countries, mother's marital status, mother's education, father's education, mother's employment, father's employment, and disposable income within household.

^{II} Models conditioned on calendar year and municipality of birth, as well as adjusted for gender, birth month, sib order, parents' birth countries, mother's marital status, mother's education, father's education, mother's employment, father's employment, disposable income within household, and neighborhood deprivation.

Table S5. Parental SES characteristics and psychiatric diagnoses among movers and non-movers

	Non-movers (n=18,727)	Movers (n=4,646)	р
Disposable income within h			
Lowest	1,956 (10.5)	487 (10.5)	0.85
Lower middle	3,728 (20.0)	959 (20.6)	
Middle	4,401 (23.6)	1,081 (23.3)	
Upper middle	4,253 (22.8)	1,063 (22.9)	
Highest	4,333 (23.2)	1,056 (22.7)	
Neighborhood deprivation (
Least deprivation	6,269 (33.6)	1,425 (30.7)	
Intermediate deprivation	6,377 (34.1)	1,541 (33.2)	< 0.0001
Most deprivation	6,025 (32.3)	1,680 (36.2)	
Mother's education at child	birth		
Low (≤9 years)	2,322 (12.5)	711 (15.3)	
Medium (10-12 years)	8,077 (43.4)	2,162 (46.6)	< 0.0001
High (>12 years)	8,216 (44.1)	1,764 (38.0)	
Father's education at child	oirth		
Low (≤9 years)	2,565 (13.9)	766 (16.7)	
Medium (10-12 years)	8,037 (43.6)	2,033 (44.3)	< 0.0001
High (>12 years)	7,853 (42.5)	1,787 (39.0)	
Mother's employment durin	g pregnancy		
Employed	13,991 (74.9)	3,369 (72.5)	
Unemployed with tasks	1,647 (8.8)	499 (10.8)	0.0001
Unemployed without	3,032 (16.2)	776 (16.7)	
tasks	• •	,	
Father's employment during	g pregnancy		
Employed	16,057 (87.3)	3,848 (84.4)	
Unemployed with tasks	1,085 (5.9)	321 (7.0)	< 0.0001
Unemployed without	1,257 (6.8)	390 (8.6)	
tasks	,	,	
Mother's marital status at cl	nild birth		
Married/Cohabiting	16,373 (87.9)	3,945 (85.1)	< 0.0001
Single/Other situations		688 (14.9)	
Parental psychiatric history		,	
Father diagnosed	1,963 (10.6)	531 (11.5)	< 0.0001
Mother diagnosed	4,618 (24.9)	1,252 (27.2)	
Both parents diagnosed		606 (13.2)	

Table S6. Sensitivity analysis: Risk of ASD (overall, with and without ID) based on continuous pollutants' levels during different time windows including multiple births

Time windows and pollutants	Models A [†] OR (95% CI)	Models B [‡] OR (95% CI)	Models C [™] OR (95% CI)
ASD overall (nr of cases/controls=5,298/18	, , , , , , , , , , , , , , , , , , , ,	011 (0070 01)	011 (0070 01)
Entire pregnancy	,		
NO _x (per 20μg/m³ increase)	1.02 (0.95, 1.10)	1.02 (0.94, 1.10)	1.02 (0.94, 1.10)
PM ₁₀ (per 10µg/m³ increase)	1.05 (0.91, 1.21)	1.02 (0.88, 1.17)	1.00 (0.87, 1.16)
First year of life			
NO _x (per 20µg/m³ increase)	1.07 (0.98, 1.18)	1.06 (0.96, 1.16)	1.05 (0.96, 1.15)
PM ₁₀ (per 10µg/m³ increase)	1.15 (0.98, 1.34)	1.08 (0.92, 1.27)	1.05 (0.89, 1.23)
ASD with ID (nr of cases/controls=954/18,8	322)		
Entire pregnancy	,		
NO _x (per 20μg/m³ increase)	1.02 (0.86, 1.21)	1.05 (0.89, 1.25)	1.05 (0.89, 1.25)
PM ₁₀ (per 10µg/m³ increase)	1.04 (0.76, 1.41)	1.07 (0.78, 1.47)	1.05 (0.76, 1.45)
First year of life			
NO _x (per 20µg/m³ increase)	1.10 (0.91, 1.34)	1.09 (0.89, 1.33)	1.08 (0.88, 1.32)
PM ₁₀ (per 10µg/m ³ increase)	1.16 (0.83, 1.62)	1.11 (0.78, 1.57)	1.07 (0.75, 1.52)
ASD without ID (nr of cases/controls=4,34	4/18,822)		
Entire pregnancy 2	, ,		
NO _x (per 20μg/m³ increase)	1.03 (0.95, 1.11)	1.01 (0.93, 1.10)	1.01 (0.93, 1.10)
PM ₁₀ (per 10µg/m³ increase)	1.05 (0.91, 1.23)	1.00 (0.85, 1.17)	0.99 (0.84, 1.15)
First year of life			
NO _x (per 20μg/m³ increase)	1.07 (0.97, 1.18)	1.05 (0.95, 1.16)	1.04 (0.94, 1.15)
PM ₁₀ (per 10µg/m ³ increase)	1.15 (0.97, 1.36)	1.07 (0.90, 1.28)	1.04 (0.87, 1.24)

[†] Models conditioned on calendar year and municipality of birth as well as adjusted for gender and birth month.

[‡] Models conditioned on calendar year and municipality of birth as well as adjusted for gender, birth month, sib order, parents' birth countries, mother's marital status, mother's education, father's education, mother's employment, father's employment, and disposable income within household.

^{II} Models conditioned on calendar year and municipality of birth as well as adjusted for gender, birth month, sib order, parents' birth countries, mother's marital status, mother's education, father's education, mother's employment, father's employment, disposable income within household, and neighborhood deprivation.

Table S7. Sensitivity analyses: Association between pollutants' levels during mother's pregnancy and child's first year of life and risk of childhood ASD overall by excluding children with certain conditions related to ASD.

		OR (95% CI)	
	Models A [†]	Models B [‡]	Models C ^{II}
Excluding children with ASD diagno	oses before 2 years of a	ge (no. of cases/contro	ols=4,984/18,237)
Entire pregnancy			
NO _x (per 20µg/m³ increase)	1.03 (0.95, 1.11)	1.02 (0.94, 1.10)	1.02 (0.94, 1.10)
PM ₁₀ (per 10µg/m³ increase)	1.07 (0.92, 1.23)	1.02 (0.88, 1.18)	1.01 (0.87, 1.17)
First year of life			
NO _x (per 20μg/m³ increase)	1.06 (0.97, 1.17)	•	1.04 (0.94, 1.14)
PM ₁₀ (per 10µg/m³ increase)	1.14 (0.97, 1.34)	1.07 (0.91, 1.26)	1.03 (0.88, 1.22)
Excluding children born before 200	3 (no. of cases/controls	=1,210/7,172)	
Entire pregnancy			
NO _x (per 20μg/m³ increase)	0.87 (0.69, 1.09)	0.88 (0.70, 1.11)	0.88 (0.70, 1.11)
PM ₁₀ (per 10µg/m ³ increase)	0.99 (0.76, 1.30)	0.97 (0.74, 1.28)	0.96 (0.73, 1.26)
First year of life			
NO _x (per 20µg/m ³ increase)	0.89 (0.67, 1.18)	0.87 (0.65, 1.17)	0.86 (0.64, 1.15)
PM ₁₀ (per 10µg/m³ increase)	1.13 (0.84, 1.53)	1.05 (0.77, 1.43)	1.01 (0.74, 1.38)
Excluding children with congenital	malformation (no. of ca	ses/controls=4,862/17,	707)
Entire pregnancy	·		•
NO _x (per 20µg/m³ increase)	1.03 (0.95, 1.11)	1.02 (0.94, 1.11)	1.02 (0.94, 1.11)
PM ₁₀ (per 10µg/m³ increase)	1.06 (0.91, 1.23)	1.02 (0.88, 1.18)	1.00 (0.86, 1.17)
First year of life			
NO _x (per 20µg/m³ increase)	1.06 (0.97, 1.17)	1.04 (0.95, 1.15)	1.03 (0.94, 1.14)
PM ₁₀ (per 10µg/m³ increase)	1.13 (0.96, 1.33)	1.06 (0.90, 1.26)	1.03 (0.87, 1.22)
Excluding children of either parent Entire pregnancy	having any psychiatric	disorders (no. of cases	s/controls= 2,018/10,379)
NO _x (per 20µg/m ³ increase)	1.08 (0.96, 1.21)	1.08 (0.96, 1.21)	1.08 (0.96, 1.21)
PM ₁₀ (per 10µg/m³ increase)	1.26 (1.01, 1.55)	1.24 (0.99, 1.54)	1.22 (0.98, 1.52)

First year of life			
NO _x (per 20µg/m ³ increase)	1.08 (0.95, 1.24)	1.08 (0.94, 1.24)	1.07 (0.94, 1.23)
PM ₁₀ (per 10µg/m³ increase)	1.22 (0.96, 1.55)	1.18 (0.93, 1.51)	1.15 (0.90, 1.48)
Excluding children of mothers withou	t pre-eclampsia (no. of	cases/controls=4,776/1	7,421)
Entire pregnancy			
NO _x (per 20μg/m ³ increase)	0.87 (0.69, 1.09)	0.88 (0.70, 1.11)	0.88 (0.70, 1.11)
PM ₁₀ (per 10µg/m³ increase)	0.99 (0.76, 1.30)	0.97 (0.74, 1.28)	0.96 (0.73, 1.26)
First year of life			
NO _x (per 20μg/m³ increase)	0.89 (0.67, 1.18)	0.87 (0.65, 1.17)	0.86 (0.64, 1.15)
PM ₁₀ (per 10µg/m³ increase)	1.13 (0.84, 1.53)	1.05 (0.77, 1.43)	1.01 (0.74, 1.38)
Excluding children of mothers withou	t pre-gestational and ge	estational diabetes (no	. of
cases/controls=5,037/18,072)			
Entire pregnancy			
NO _x (per 20μg/m³ increase)	1.02 (0.95, 1.11)	1.02 (0.94, 1.10)	1.02 (0.94, 1.10)
PM ₁₀ (per 10µg/m³ increase)	1.04 (0.90, 1.21)	1.01 (0.87, 1.17)	0.99 (0.85, 1.15)
First year of life			
NO _x (per 20μg/m³ increase)	1.06 (0.97, 1.17)	1.05 (0.95, 1.15)	1.04 (0.94, 1.14)
PM ₁₀ (per 10µg/m³ increase)	1.12 (0.96, 1.32)	1.06 (0.90, 1.25)	1.02 (0.87, 1.20)
Excluding children of mothers withou	t placental abruption (n	o. of cases/controls=5	,107/18,172)
Entire pregnancy			
NO _x (per 20µg/m³ increase)	1.02 (0.95, 1.11)	1.02 (0.94, 1.10)	1.02 (0.94, 1.10)
PM ₁₀ (per 10μg/m ³ increase)	1.04 (0.90, 1.21)	1.01 (0.87, 1.17)	0.99 (0.85, 1.15)
First year of life			
NO _x (per 20µg/m³ increase)	1.06 (0.97, 1.17)	1.05 (0.95, 1.15)	1.04 (0.94, 1.14)
PM ₁₀ (per 10μg/m³ increase)	1.12 (0.96, 1.32)	1.06 (0.90, 1.25)	1.02 (0.87, 1.20)
Excluding children of mothers withou	t premature rupture of t	the membranes (no. of	
cases/controls=5,033/18,009)			
Entire pregnancy	4.00 (0.05, 4.44)	4.00 (0.04, 4.40)	4.00 (0.04.4.40)
NO _x (per 20µg/m³ increase)	1.02 (0.95, 1.11)	1.02 (0.94, 1.10)	1.02 (0.94, 1.10)
PM ₁₀ (per 10µg/m³ increase)	1.04 (0.90, 1.21)	1.01 (0.87, 1.17)	0.99 (0.85, 1.15)
First year of life			

NO (non 2000)	1.00 (0.07, 1.17)	1.05 (0.05, 1.15)	1.04 (0.04, 4.44)
NO _x (per 20μg/m ³ increase)	1.06 (0.97, 1.17)		1.04 (0.94, 1.14)
PM ₁₀ (per 10µg/m³ increase)	1.12 (0.96, 1.32)	1.06 (0.90, 1.25)	1.02 (0.87, 1.20)
Excluding children of foreign-born pa	arents ¹ (no. of cases/co	ontrols=3,512/12,796)	
Entire pregnancy			
NO _x (per 20µg/m ³ increase)	1.02 (0.94, 1.10)	1.01 (0.93, 1.10)	1.01 (0.93, 1.10)
PM ₁₀ (per 10µg/m³ increase)	1.03 (0.88, 1.20)	0.99 (0.84, 1.15)	0.97 (0.83, 1.13)
First year of life			
NO _x (per 20µg/m ³ increase)	1.08 (0.98, 1.18)	1.06 (0.96, 1.16)	1.05 (0.95, 1.15)
PM ₁₀ (per 10µg/m³ increase)	1.15 (0.97, 1.36)	1.07 (0.90, 1.26)	1.02 (0.86, 1.22)
Excluding children with less than 37	weeks of gestation (no	. of cases/controls=4,7	76/17,421)
Entire pregnancy			
NO _x (per 20µg/m³ increase)	1.02 (0.94, 1.10)	1.01 (0.93, 1.09)	1.01 (0.93, 1.09)
PM ₁₀ (per 10µg/m³ increase)	1.06 (0.91, 1.22)	1.02 (0.87, 1.18)	1.00 (0.86, 1.17)
First year of life			
NO _x (per 20µg/m ³ increase)	1.06 (0.96, 1.16)	1.04 (0.94, 1.14)	1.03 (0.94, 1.14)
PM ₁₀ (per 10µg/m³ increase)	1.12 (0.95, 1.33)	1.06 (0.90, 1.26)	1.03 (0.87, 1.21)
Excluding children with less than 2,5	00 g of birth weight (no	o. of cases/controls=4,8	340/17,671)
Entire pregnancy			
NO _x (per 20µg/m³ increase)	1.03 (0.95, 1.12)	1.03 (0.95, 1.11)	1.03 (0.95, 1.11)
PM ₁₀ (per 10µg/m³ increase)	1.07 (0.92, 1.24)	1.03 (0.89, 1.20)	1.02 (0.88, 1.19)
First year of life			
NO _x (per 20µg/m³ increase)	1.05 (0.96, 1.16)	1.04 (0.94, 1.14)	1.03 (0.93, 1.13)
PM ₁₀ (per 10µg/m ³ increase)	1.12 (0.95, 1.32)	1.05 (0.89, 1.25)	1.02 (0.86, 1.21)

[†] Models conditioned on calendar year and municipality of birth as well as adjusted for gender and birth month.

[‡] Models conditioned on calendar year and municipality of birth as well as adjusted for gender, birth month, sib order, parents' birth countries, mother's marital status, mother's education, father's education, mother's employment, father's employment, and disposable income within household.

Models conditioned on calendar year and municipality of birth as well as adjusted for gender, birth month, sib order, parents' birth countries, mother's marital status, mother's education, father's education, mother's employment, father's employment, disposable income within household, and neighborhood deprivation.

¹ We did not adjust for parents' birth countries in the analyses of this subpopulation.

Table S8. Risk of ASD (overall, with and without ID) based on continuous pollutants' levels during different time windows without conditioning on municipality of birth

Time windows and pollutants	Models A [†] OR (95% CI)	Models B [‡] OR (95% CI)	Models C ^{II} OR (95% CI)
ASD overall (nr of cases/controls=5,13	6/18,237)		
Entire pregnancy			
NO _x (per 20µg/m³ increase)	0.92 (0.87, 0.98)	0.92 (0.87, 0.98)	0.92 (0.87, 0.98)
PM ₁₀ (per 10µg/m³ increase)	0.89 (0.81, 0.99)	0.87 (0.79, 0.97)	0.87 (0.78, 0.97)
First year of life			
NO _x (per 20μg/m³ increase)	0.93 (0.87, 0.99)	0.91 (0.86, 0.98)	0.91 (0.85, 0.98)
PM ₁₀ (per 10µg/m³ increase)	0.91 (0.82, 1.01)	0.88 (0.79, 0.98)	0.86 (0.77, 0.96)
ASD with ID (nr of cases/controls=913,	/118)		
Entire pregnancy			
NO _x (per 20μg/m³ increase)	0.92 (0.82, 1.05)	1.01 (0.89, 1.15)	1.02 (0.90, 1.16)
PM ₁₀ (per 10µg/m ³ increase)	0.96 (0.78, 1.19)	1.08 (0.86, 1.36)	1.07 (0.85, 1.35)
First year of life			
NO _x (per 20μg/m³ increase)	0.95 (0.83, 1.08)	1.02 (0.89, 1.17)	1.02 (0.89, 1.17)
PM ₁₀ (per 10µg/m³ increase)	1.02 (0.82, 1.26)	1.09 (0.87, 1.38)	1.08 (0.85, 1.37)
ASD without ID (nr of cases/controls=4	4,223/18,119)		
Entire pregnancy			
NO _x (per 20μg/m³ increase)	0.92 (0.87, 0.98)	0.90 (0.84, 0.96)	0.90 (0.85, 0.96)
PM ₁₀ (per 10µg/m ³ increase)	0.88 (0.79, 0.98)	0.83 (0.74, 0.94)	0.83 (0.73, 0.93)
First year of life			
NO _x (per 20µg/m³ increase)	0.92 (0.86, 0.99)	0.89 (0.83, 0.96)	0.89 (0.83, 0.96)
PM ₁₀ (per 10µg/m ³ increase)	0.89 (0.79, 1.00)	0.84 (0.74, 0.94)	0.82 (0.73, 0.93)

[†] Models conditioned on calendar year of birth, as well as adjusted for gender and birth month.

[‡] Models conditioned on calendar year of birth, as well as adjusted for gender, birth month, sib order, parents' birth countries, mother's marital status, mother's education, father's education, mother's employment, father's employment, and disposable income within household.

^{II} Models conditioned on calendar year of birth, as well as adjusted for gender, birth month, sib order, parents' birth countries, mother's marital status, mother's education, father's education, mother's employment, father's employment, disposable income within household, and neighborhood deprivation.